# VOLUME XVIII, PART I.

## SUBJECT INDEX.

### A

**Aggregates.**
Proposed Revision in the Standard Method for Making a Mechanical Analysis of Sand or Other Fine Highway Material, Except for Fine — Used in Cement Concrete. Appendix II, Report of Committee D-4, 333.

**Aircraft Fabrics.**
Effect of Moisture on the Tensile Strength of —. Appendix V, Report of Committee D-13, 380.

**Alloys** (see also **Brass, Bronze, Gun Metal**).
Non-Ferrous Metals and —. Report of Committee B-2, 246. Discussion, 262.
Tentative Definitions and Rules Governing the Preparation of Micrographs of Metals and —, 716.
Tentative Methods for Chemical analysis of — of Lead, Tin, Antimony and Copper, 502.
Tentative Specifications for Light Aluminum Casting —, 497.
Tentative Specifications for Non-Ferrous — for Railway Equipment in Ingots, Castings, and Finished Car and Tender Bearings, 467.
Tentative Specifications for White Metal Bearing — (Known Commercially as "Babbitt Metal"), 487.

**Aluminum.**
Tentative Specifications for — Ingots for Remelting and for Rolling, 492.
Tentative Specifications for — Sheet, 494.
Tentative Specifications for Light — Casting Alloys, 497.

**American Engineering Standards Committee.**
Constitution and Rules of Procedure of the Proposed —. Appendix II, Summary of the Proceedings, 46.

**Analysis.**
Methods of — of Paint Materials. Report of Sub-Commmittee VIII of Committee D-1, 304.
Proposed Revision in the Standard Method of Making a Mechanical — of Sand or Other Fine Highway Material except for Fine Aggregates Used in Cement Concrete. Appendix II, Report of Committee D-4, 333.
Reports of Analysts. Appendix, Report of Sub-Committee V of Committee D-1, 301.

# VOLUME XVIII, PART I.

## SUBJECT INDEX.

### A

**Aggregates.**
Proposed Revision in the Standard Method for Making a Mechanical Analysis of Sand or Other Fine Highway Material, Except for Fine — Used in Cement Concrete. Appendix II, Report of Committee D-4, 333.

**Aircraft Fabrics.**
Effect of Moisture on the Tensile Strength of —. Appendix V, Report of Committee D-13, 380.

**Alloys** (see also **Brass, Bronze, Gun Metal**).
Non-Ferrous Metals and —. Report of Committee B-2, 246. Discussion, 262.
Tentative Definitions and Rules Governing the Preparation of Micrographs of Metals and —, 716.
Tentative Methods for Chemical analysis of — of Lead, Tin, Antimony and Copper, 502.
Tentative Specifications for Light Aluminum Casting —, 497.
Tentative Specifications for Non-Ferrous — for Railway Equipment in Ingots, Castings, and Finished Car and Tender Bearings, 467.
Tentative Specifications for White Metal Bearing — (Known Commercially as "Babbitt Metal"), 487.

**Aluminum.**
Tentative Specifications for — Ingots for Remelting and for Rolling, 492.
Tentative Specifications for — Sheet, 494.
Tentative Specifications for Light — Casting Alloys, 497.

**American Engineering Standards Committee.**
Constitution and Rules of Procedure of the Proposed —. Appendix II, Summary of the Proceedings, 46.

**Analysis.**
Methods of — of Paint Materials. Report of Sub-Commmittee VIII of Committee D-1, 304.
Proposed Revision in the Standard Method of Making a Mechanical — of Sand or Other Fine Highway Material except for Fine Aggregates Used in Cement Concrete. Appendix II, Report of Committee D-4, 333.
Reports of Analysts. Appendix, Report of Sub-Committee V of Committee D-1, 301.

**Analysis** (*Continued*):
Tentative Methods for Chemical — of Alloys of Lead, Tin, Antimony and Copper, 502.
Tentative Methods for Chemical — of Gun Metal, 523.
Tentative Methods for Chemical — of Manganese Bronze, 510.
Tentative Methods for Ultimate Chemical — of Refractory Materials, 580.
**Anchor Chain.**
Tentative Specifications for Electric Cast Steel —, 460.
**Annual Meeting.**
Summary of the Proceedings of the Twenty-first —, 9.
**Antimony.**
Tentative Methods for Chemical Analysis of Lead, Tin, — and Copper, 502.
**Apparent Specific Gravity.**
See **Specific Gravity.**
**Asphalt.**
Primer for Use with — for Use in Damp-proofing and Waterproofing, 634.
Tentative Specifications for — for Use in Damp-proofing and Waterproofing, 630.

**B**

**Babbitt Metal.**
Tentative Specifications for White Metal Bearing Alloys (Known Commercially as "—"), 487.
**Bearings.**
Tentative Specifications for Non-Ferrous Alloys for Railway Equipment in Ingots, Castings, and Finished Car and Tender —, 467.
**Belting.**
Tentative Specifications for Rubber — for Power Transmission, 676.
**Bituminous Materials.**
Proposed Revision in the Standard Method for Distillation of — Suitable for Road Treatment. Appendix I, Report of Committee D-4, 331.
Tentative Tests for Determination of Apparent Specific Gravity of Sand, Stone, and Slag Screenings and Other Fine Non-Bituminous Highway Materials, 689.
Tentative Methods for Determination of Softening Point of — other than Tar Products, 707.
**Boiler Steel.**
Tentative Specifications for Boiler and Firebox Steel for Stationary Service, 449.
**Bolts.**
Tentative Specifications for Low-Carbon-Steel Track —, 456.
**Boxes.**
Tentative Specifications for Canned Foods —, Nailed and Lock-Corner Construction, 641.
Tentative Specifications for Canned Foods —, Wirebound Construction, 648.

**Brass.**
Tentative Specifications for Cartridge —, 472.
Tentative Specifications for Cartridge — disks, 476.
Tentative Specifications for Naval — Rods for Structural Purposes, 478.
**Bridge Timbers.**
Tentative Specifications for Selected Structural Douglas Fir Bridge and Trestle Timbers, 617.
**Bridges.**
Tentative Specifications for Bronze Bearing Metals for Turntables and Movable Railroad —, 482.
Tentative Specifications for Selected Douglas Fir Bridge and Trestle Timbers, 617.
**Bronze.**
Chemical Analysis of Manganese —, 510.
Tentative Specifications for — Bearing Metals for Turntables and Movable Railroad Bridges, 482.
**Building Tile.**
Hollow —. Report of Committee C-10, 293.
Tests of Hollow —. Appendix, Report of Committee C-10, 294.

## C

**Cable.**
Tentative Specifications for Insulated Wire and —: 30-per-cent Hevea Rubber, 650.
**Canned Foods Boxes.**
Tentative Specifications for —, Nailed and Lock-Corner Construction, 641.
Tentative Specifications for —, Wirebound Construction, 648.
**Carbon Steel.**
Tentative Specifications for Carbon Tool Steel, 454.
Tentative Specifications for Low- — Track Bolts, 456.
**Cars.**
Tentative Specifications for Non-Ferrous Alloys for Railway Equipment in Ingots, Castings, and Finished Car and Tender Bearings, 467.
**Cartridge Brass.**
Tentative Specifications for —, 472.
Tentative Specifications for — Disks, 476.
**Cast Iron.**
—. Report of Committee A-3, 156.
**Cast Steel.**
Tentative Specifications for Electric — Anchor Chain, 460.
**Castings.**
Tentative Specifications for Light Aluminum Casting Alloys, 497.
Tentative Specifications for Malleable —, 464.
Tentative Specifications for Non-Ferrous Alloys for Railway Equipment in Ingots, — and Finished Car and Tender Bearings, 467.

**Cement.**

—. Report of Committee C-1, 270.

Clay and — Sewer Pipe. Report of Committee C-4, 274.

Proposed Revision in the Standard Method for Making a Mechanical Analysis of Sand or Other Fine Highway Material except for Fine Aggregates Used in — Concrete. Appendix II, Report of Committee D-4, 333.

Tentative Specifications for — -Concrete Sewer Pipe, 555.

Tentative Specifications and Tests for Compressive Strength of Portland- — Mortars, 538.

**Chain.**

Tentative Specifications for Electric Cast Steel Anchor —, 460.

**Chemical Analysis.**

Tentative Methods for — of Alloys of Lead, Tin, Antimony and Copper, 502.

Tentative Methods for — of Gun Metal, 523.

Tentative Methods for — of Manganese Bronze, 510.

Tentative Methods for Ultimate — of Refractory Materials, 580.

**Clay Sewer Pipe.**

Clay and Cement Sewer Pipe. Report of Committee C-4, 274. Addendum, 280.

**Coal.**

—. Report of Committee D-5, 334.

**Coal-Tar Pitch.**

See **Pitch.**

**Coke.**

—. Report of Committee D-6, 335.

**Compressive Strength.**

Tentative Specifications and Tests for — of Portland-Cement Mortars, 538.

**Committee.**

See **American Engineering Standards Committee; Standing Committees.**

**Concrete.**

Proposed Revision in the Standard Method for Making a Mechanical Analysis of Sand or Other Fine Highway Material, except for Fine Aggregates used in Cement —. Appendix II, Report of Committee D-4, 333.

Reinforced —. Report of Committee C-2, 273.

Tentative Specifications for Cement- — Sewer Pipe, 555.

**Constitution.**

— and Rules of Procedure of the Proposed American Engineering Standards Committee. Appendix II, Summary of the Proceedings, 46.

**Copper.**

Tentative Methods for Chemical Analysis of Lead, Tin, Antimony and —, 502.

**Corrosion.**
Analysis of Steel Sheets for — Tests. Appendix I, Report of Committee A-5, 160.
— of Iron and Steel. Report of Committee A-5, 158.
Method of Making the Salt-Spray — Test. Appendix IV, Report of Committee A-5, 237.
**Cotton Fabrics.**
Tentative Methods for Testing —, 709.
**Creosote Oil.**
Tentative Specifications for — for Priming Coat with Coal-Tar Pitch for Use in Damp-proofing and Waterproofing, 639.
**Creosoted Timber.**
Tentative Specifications for Southern Yellow-Pine Piles and Poles to be Creosoted, 623.
Tentative Specifications for Southern Yellow-Pine Timber to be Creosoted, 621.
**Crushing Strenghts.**
Tentative Specifications for Required Safe — of Sewer Pipe to Carry Loads from Ditch Filling, 567.

**D**

**Damp-proofing.**
Tentative Specifications for Asphalt for Use in — and Waterproofing, 630.
Tentative Specifications for Coal-Tar Pitch for Use in — and Waterproofing, 635.
Tentative Specifications for Creosote Oil for Priming Coat with Coal-Tar Pitch for Use in — and Waterproofing, 639.
Tentative Specifications for Primer for Use with Asphalt for Use in — and Waterproofing, 634.
**Definitions of Terms.**
Tentative Definitions and Rules Governing the Preparation of Micrographs of Metals and Alloys, 716.
Tentative — Relating to the Gypsum Industry, 592.
**Ditch Filling.**
Tentative Specifications for Required Safe Crushing Strengths of Sewer Pipe to Carry Loads from —, 567.
**Disks.**
Tentative Specifications for Cartridge Brass —, 476.
**Douglas Fir.**
See **Fir.**

**E**

**Electrical Materials.**
Electrical Insulating Materials. Report of Committee D-9, 349.
**Engineering Societies.**
—: Their Justification and Utilities. Annual Address by the President, Gen. Wm. H. Bixby, 52.

**Evaporation Tests.**
Report of Sub-Committee on —. Appendix, Report of Committee D-2, 323.
**Executive Committee.**
Abstract of the Minutes of the —. Appendix to the Annual Report of the —, 84.
Annual Report of the —, 59.
Officers and Members of the —, 727.

**F**

**Fabrics.**
Effect of Moisture on the Tensile Strength of Aircraft Fabrics. Appendix V, Report of Committee D-13, 380.
Table of Corrected Tensile Strengths of Fabric and Yarn at Various Moisture Regains. Appendix II, Report of Committee D-13, 368.
Tentative Methods for Testing Cotton —, 709.
**Fir.**
Tentative Specifications for Selected Structural Douglas — Bridge and Trestle Timbers, 617.
**Firebox Steel.**
Tentative Specifications for Boiler and — for Stationary Service, 449.
**Fireproofing.**
—. Report of Committee C-5, 281. Addendum, 283.
**Flash Point.**
Tentative Tests for — for Paint Thinners other than Turpentine, 685.
**Foots.**
Tentative Specifications for — Permissible in Properly Clarified Pure Raw Linseed Oil from North American Seed, 615.

**G**

**Gun Metal.**
Tentative Methods for Chemical Analysis of —, 523.
**Gypsum.**
Tentative Definitions of Terms Relating to the — Industry, 592.

**H**

**Hevea Rubber.**
See **Rubber.**
**Highway Materials.**
See **Materials.**
**Hollow Building Tile.**
—. Report of Committee C-10, 293.
Tests of —. Appendix, Report of Committee C-10, 294.
**Hose.**
Tentative Specifications for Steam —, 681.
**Hydrated Lime.**
Tentative Specifications for Masons' —, 569.

## I

**Industry.**
Tentative Definitions of Terms Relating to the Gypsum —, 592.
**Ingots.**
Tentative Specifications for Non-Ferrous Alloys for Railway Equipment in —, Castings, and Finished Car and Tender Bearings, 467.
Tentative Specifications for Aluminum — for Remelting and for Rolling, 492.
**Inspection.**
Report of — of Test Panels. Appendix, Report of Sub-Committee XIV of Committee D-1, 312.
Report of the Sub-Committee on — of the Fort Sheridan, Pittsburgh and Annapolis Tests. Appendix II, Report of Committee A-5, 180.
**Insulating Materials.**
See **Materials.**
**Iron.**
Cast —. Report of Committee A-3, 156.
Corrosion of — and Steel. Report of Committee A-5, 158.
Preparation of — and Steel Surfaces for Painting. Report of Sub-Committee XIV of Committee D-1, 310.
Proposed Revisions in the Standard Tests for Magnetic Properties of — and Steel. Appendix, Report of Committee A-6, 244.
Proposed Revisions in the Specifications for Wrought —. Appendix, Report of Committee A-2, 146.
Wrought —. Report of Committee A-2, 142.

## L

**Lead.**
Tentative Methods for Chemical Analysis of —, Tin, Antimony and Copper, 502.
**Lime.**
Tentative Specifications for Masons' Hydrated —, 569.
**Linseed Oil.**
—. Report of Sub-Committee V of Committee D-1, 299.
Tentative Specifications for Foots permissible in Properly Clarified Pure Raw — from North American Seed, 615.
**Lubricants** (See also **Oil**).
—. Report of Committee D-2, 321.

## M

**Malleable Castings.**
Tentative Specifications for —, 464.
**Magnetic Properties.**
—. Report of Committee A-6, 243.
Proposed Revisions in Standard Tests for — of Iron and Steel. Appendix, Report of Committee A-6, 244.

**Manganese.**
Determination of — in — Bronze. Appendix, Report of Committee B-2, 256.
**Manganese Bronze.**
Determination of Manganese in —. Appendix, Report of Committee, B-2, 256.
Tentative Methods for Chemical Analysis of —, 510.
**Manila Rope Fiber.**
Identification of Manila Rope Fibers. Appendix IV, Report of Committee D-13, 377.
**Masons' Lime.**
See **Lime.**
**Materials.**
Electrical Insulating —. Report of Committee D-9, 349.
Methods of Analysis of Paint —. Report of Sub-Committee VIII of Committee D-1, 304.
Preservative Coatings for Structural —. Report of Committee D-1, 297.
Proposed Revision in the Standard Method for Distillation of Materials Suitable for Road Treatment. Appendix I, Report of Committee D-4, 331.
Proposed Revision in the Standard Method of Making a Mechanical Analysis of Sand or Other Fine Highway Material, Except for Fine Aggregates Used in Cement Concrete. Appendix II, Report of Committee D-4, 333.
Regulations Governing Committee D-13 on Textile —. Appendix I, Report of Committee D-13, 365.
Tentative Methods for Determination of Porosity and Permanent Volume Changes in Refractory —, 588.
Tentative Methods for Determination of Softening Point of Bituminous — other than Tar Products, 707.
Tentative Methods for Ultimate Chemical Analysis of Refractory —, 580.
Tentative Tests for Determination of Apparent Specific Gravity of Sand, Stone and Slag Screenings and other fine Non-Bituminous Highway —, 689.
Tentative Tests for Molded Insulating —, 694.
Tentative Tests for Slagging Action of Refractory —, 578.
Textile —. Report of Committee D-13, 357.
**Mechanical Analysis.**
Proposed Revision in the Standard Method for Making a — of Sand or Other Fine Highway Material, except for Fine Aggregates Used in Cement Concrete. Appendix II, Report of Committee D-4, 333.
**Members.**
— Present or Represented. Appendix I of Summary of Proceedings, 39.
**Micrographs.**
Magnification Scales for —. Report of Committee E-4, 425.
Tentative Definitions and Rules Governing the Preparation of — of Metals and Alloys, 716.

**Moisture Content.**
Effect of Moisture on the Tensile Strength of Aircraft Fabrics. Appendix V, Report of Committee D-13, 380.
Table of Corrected Tensile Strengths of Fabric and Yarn at Various Moisture Regains. Appendix II, Report of Committee D-13, 368.
**Metals** (see also **Aluminum, Copper, Steel, Alloys**).
Non-Ferrous — and Alloys. Report of Committee B-2, 246.
Tentative Definitions and Rules Governing the Preparation of Micrographs for — and Alloys, 716.
Tentative Methods for Chemical Analysis of Gun Metal, 523.
Tentative Specifications for Bronze Bearing — for Turntables and Movable Railroad Bridges, 482.
Tentative Specifications for White Metal Bearing Alloys (Known Commercially as "Babbitt Metal"), 487.
**Mortars.**
Tentative Specifications and Tests for Compressive Strength of Portland-Cement —, 538.
**Movable Bridges.**
Tentative Specifications for Bronze Bearing Metals for Turntables and Movable Railroad Bridges, 482.

**N**

**Nailed Boxes.**
Tentative Specifications for Canned Foods Boxes, Nailed and Lock-Corner Construction, 641.
**Non-Ferrous Metals.**
Report of Committee B-2 on — and Alloys, 246.

**O**

**Oil** (see also **Lubricants**).
Linseed —. Report of Sub-Committee V of Committee D-1, 299.
Tentative Specifications for Creosote — for Priming Coat with Coal-Tar Pitch for Use in Damp-proofing and Waterproofing, 639.
Tentative Specifications for Foots permissible in Properly Clarified Pure Raw Linseed — from North American Seed, 615.

**P**

**Paint.**
— Thinners other than Turpentine. Report of Sub-Committee XI of Committee D-1, 309.
Preparation of Iron and Steel Surfaces for Painting. Report of Sub-Committee XIV of Committee D-1, 310.
Tentative Tests for Flash Point for — Thinners other than Turpentine, 685.
**Papers.**
— and Publications. Report of Committee E-6, 440.
**Pavements.**
Tentative Specifications for Wooden Paving Blocks for Exposed —, 625.

**Paving Blocks.**
Tentative Specifications for Wooden — for Exposed Pavements, 625.
**Piles.**
Tentative Specifications for Southern Yellow-Pine — and Poles to be Creosoted, 623.
**Pine.**
Tentative Specifications for Southern Yellow- — Piles and Poles to be Creosoted, 623.
Tentative Specifications for Southern Yellow- — Timber to be Creosoted, 621.
**Pipe.**
Clay and Cement Sewer —. Report of Committee C-4, 274. Addendum, 280.
Tentative Recommended Practice for Laying Sewer —, 612.
Tentative Specifications for Cement-Concrete Sewer —, 555.
Tentative Specifications for Clay Sewer —, 542.
Tentative Specifications for Required Safe Crushing Strengths of Sewer — to carry Loads from Ditch Filling, 567.
**Pipe Threads.**
Revision of Pipe Threads. Report of Committee E-3 422.
**Pitch.**
Tentative Specifications for Coal-Tar — for Use in Damp-proofing and Waterproofing, 635.
Tentative Specifications for Creosote Oil for Priming Coat with Coal-Tar — for Use in Damp-proofing and Waterproofing, 639.
**Plates.**
Tentative Specifications for Steel Tie —, 445.
**Poles.**
Tentative Specifications for Southern Yellow-Pine Piles and — to be Creosoted, 623.
**Porosity.**
Tentative Methods for Determination of — and Permanent Volume Changes in Refractory Materials, 588.
**Portland Cement.**
See **Cement.**
**Preservative Coatings.**
— for Structural Materials. Report of Committee D-1, 297.
**Primer.**
Tentative Specifications for Creosote Oil for Priming Coat with Coal-Tar Pitch for Use in Damp-proofing and Waterproofing, 639.
Tentative Specifications for — for Use with Asphalt for Use in Damp-proofing and Waterproofing, 634.
**Proceedings.**
Summary of the — of the Twenty-first Annual Meeting, 9.
**Publications.**
Papers and —. Report of Committee E-6, 440.

## R

**Rail Situation.**
The —. Appendix II, Report of Committee A-1, 126.
**Railroad Bridges.**
Tentative Specifications for Bronze Bearing Metals for Turntables and Movable —, 482.
**Railway** (see also **Steel**).
Tentative Specifications for Non-Ferrous Alloys for — Equipment in Ingots, Castings, and Finished Car and Tender Bearings, 467.
**Raw Linseed Oil.**
Tentative Specifications for Foots Permissible in Properly Clarified Pure — from North American Seed, 615.
**Refractories.**
—. Report of Committee C-8, 287.
**Reinforced Concrete.**
—. Report of Committee C-2, 273.
**Refractory Materials.**
Tentative Methods for Determination of Porosity and Permanent Volume Changes in —, 588.
Tentative Methods for Ultimate Chemical Analysis of —, 580.
Tentative Tests for — under Load at High Temperatures, 573.
Tentative Tests for Slagging Action of —, 578.
**Roads.**
Proposed Revision in the Standard Method for Distillation of Bituminous Materials Suitable for Road Treatment. Appendix I, Report of Committee D-4, 331.
Road Materials. Report of Committee D-4, 326.
**Rods.**
Tentative Specifications for Naval Brass — for Structural Purposes, 478.
**Rope Fibers.**
Identification of Manila Fibers. Appendix IV, Report of Committee D-13, 377.
**Rubber.**
— Products. Report of Committee D-11, 354. Addendum, 356.
Tentative Specifications for Insulated Wire and Cable: 30-per-cent Hevea —, 650.
Tentative Specifications for — Belting for Power Transmission, —, 676.
**Rules of Procedure.**
Constitution and — of the Proposed American Engineering Standards Committee. Appendix II, Summary of the Proceedings, 46.

## S

**Sand.**
Proposed Revision in the Standard Method for Making a Mechanical Analysis of — or Other Fine Highway Material, except for Fine Aggregates Used in Cement Concrete. Appendix II, Report of Committee D-4, 333.

**Sand** (*Continued*):
Tentative Tests for Determination of Apparent Specific Gravity of —, Stone and Slag Screenings and Other Fine Non-Bituminous Highway Materials, 689.
**Screenings.**
Tentative Tests for Determination of Apparent Specific Gravity of Sand, Stone and Slag — and Other Fine, Non-Bituminous Highway Materials, 689.
**Sewer Pipe.**
Clay and Cement —. Report of Committee C-4, 274.
Proposed Revisions in Tentative Specifications for —. Appendix, Report of Committee C-4, 276.
Tentative Recommended Practice for Laying —, 612.
Tentative Specifications for Cement-Concrete —, 555.
Tentative Specifications for Clay —, 542.
Tentative Specifications for Required Safe Crushing Strengths of — to Carry Loads from Ditch Filling, 567.
**Sheet Aluminum.**
Tentative Specifications for Aluminum Sheet, 494.
**Shipping Containers.**
—. Report of Committee D-10, 350. Discussion, 351.
**Slag.**
Tentative Tests for Determination of Apparent Specific Gravity of Sand, Stone and — Screenings and Other Fine Non-Bituminous Highway Materials, 689.
**Slagging Action.**
Tentatives Tests for — of Refractory Materials, 578.
**Softening Point.**
Tentative Methods for Determination of — of Bituminous Materials other than Tar Products, 707.
**Specific Gravity.**
Tentative Tests for Determination of Apparent — of Sand, Stone and Slag Screenings and Other Fine Non-Bituminous Highway Materials, 689.
**Steam Hose.**
See **Hose.**
**Steel.**
Analysis of — Sheets for Corrosion Tests, Appendix I, Report of Committee A-5, 160.
Corrosion of Iron and —. Report of Committee A-5, 158.
Preparation of Iron and — Surfaces for Painting. Report of Sub-Committee XIV of Committee D-1, 310.
Proposed Revisions in the Specifications for — and — Products. Appendix I, Report of Committee A-1, 116.
Proposed Revisions in Standard Tests for Magnetic Properties of Iron and —. Appendix, Report of Committee A-6, 244.
Tentative Specifications for Boiler and Firebox — for Stationary Service, 449.

**Steel** (*Continued*):
Tentative Specifications for Carbon Tool —, 454.
Tentative Specifications for Electric Cast — Anchor Chain, 460.
Tentative Specifications for Low Carbon — Track Bolts, 456.
Tentative Specifications for — Tie Plates, 445.
**Standing Committees.**
Regulations Governing —. Appendix, Report of Committee E-5, 429.
—. Report of Committee E-5, 428.
**Stone.**
Tentative Tests for Determination of Apparent Specific Gravity of Sand, — and Slag Screenings, and Other Fine Non-Bituminous Highway Materials, 689.
**Structural Materials.**
Preservative Coatings for —. Report of Committee D-1, 297.
**Summary of the Proceedings.**
— of the Twenty-first Annual Meeting, 9.

## T

**Tar Products.**
Tentative Methods for Determination of Softening Point of Bituminous Materials other than —, 707.
**Tender Bearings.**
See **Bearings.**
**Tensile Strength.**
Table of Corrected Tensile Strengths of Fabric and Yarn at Various Moisture Regains. Appendix II, Report of Committee D-13, 368.
**Tentative Standards.**
List of —, 722.
See Table of Contents, p. 7.
**Testing** (see also **Tests**).
Methods of —. Report of Committee E-1, 399.
Proposed Revisions in the Standard Methods of —. Appendix I, Report of Committee E-1, 401.
Tentative Methods for — Cotton Fabrics, 709.
**Testing Machines.**
—. Report of Sub-Committee III. Appendix III, Report of Committee D-13, 370.
**Tests** (see also **Testing**).
Analysis of Steel Sheets for Corrosion —. Appendix I, Report of Committee A-5, 160.
Proposed Revisions in Standard — for Magnetic Properties of Iron and Steel. Appendix, Report of Committee A-6, 244.
Report of Inspection of Test Panels. Appendix, Report of Sub-Committee XIV of Committee D-1, 312.
Report of Sub-Committee on Evaporation —. Appendix Report of, Committee D-2, 323.

**Tests** (*Continued*):
Report of Sub-Committee on Inspection of the Fort Sheridan, Pittsburgh and Annapolis —. Appendix II, Report of Committee A-5, 180.
Tension — of Steel with Test Specimens of Various Size and Form. Appendix II, Report of Committee E-1, 403.
— of Hollow Building Tile. Appendix, Report of Committee C-10, 294.
**Textile Materials.**
—. Report of Committee D-13, 357.
Regulations Governing Committee D-13 on —. Appendix I, Report of Committee D-13, 365.
**Tie Plates.**
Tentative Specifications for Steel —, 445.
**Tile.**
Hollow Building —. Report of Committee C-10, 293.
Tests of Hollow Building —. Appendix, Report of Committee C-10, 294.
**Timber.**
Tentative Specifications for Selected Structural Douglas Fir Bridge and Trestle Timbers, 617.
Tentative Specifications for Southern Yellow-Pine — to be Creosoted, 621.
Tentative Specifications for Yellow-Pine Piles and Poles to be Creosoted, 623.
—. Report of Committee D-7, 336. Discussion, 340.
**Tin.**
Tentative Methods for Chemical Analysis of Lead, —, Antimony and Copper, 502.
**Tool Steel.**
Tentative Specifications for Carbon —, 454.
**Track Bolts.**
Tentative Specifications for Low-Carbon-Steel —, 456.
**Trestle Timbers.**
Tentative Specifications for Selected Structural Douglas Fir Bridge and —, 617.
**Turpentine.**
Tentative Tests for Flash Point for Paint Thinners other than —, 685.
**Turntables.**
Tentative Specifications for Bronze Bearing Metals for — and Movable Railroad Bridges, 482.
**Turpentine.**
Paint Thinners other than —. Report of Sub-Committee XI of Committee D-1, 309.

## V

**Volume.**
Tentative Methods for Determination of Porosity and Permanent — Changes in Refractory Materials, 588.
**Varnish.**
—. Report of Sub-Committee IX of Committee D-1, 305.

## W

**Waterproofing.**
Tentative Specifications for Asphalt for Use in Damp-proofing and —, 630.
Tentative Specifications for Coal-Tar Pitch for Use in Damp-proofing and —, 635.
Tentative Specifications for Creosote Oil for Priming Coat with Coal-Tar Pitch for Use in Damp-proofing and —, 639.
Tentative Specifications for Primer for Use with Asphalt for Use in Damp-proofing and —, 634.
—. Report of Committee D-8, 347.

**Wire.**
Tentative Specifications for Insulated — and Cable: 30-per-cent Hevea Rubber, 650.

**Wirebound Boxes.**
Tentative Specifications for Canned Foods Boxes, Wirebound Construction, 648.

**Wooden Paving Blocks.**
See **Paving Blocks.**

**Wrought Iron.**
Proposed Revisions in the Specifications for —. Appendix, Report of Committee A-2, 146.
—. Report of Committee A-2, 142. Addendum, 155.

## Y

**Yarn.**
Table of Corrected Tensile Strengths of Fabric and — at Various Moisture Regains. Appendix II, Report of Committee D-13, 368.

**Yellow Pine.**
See **Pine.**

## Z

**Zinc Coatings.**
Structure of Commercial —. Appendix III, Report of Committee A-5, 216.

# AUTHOR INDEX.


## A

**Aertsen, G.**
Discussion, 141.

## B

**Barrier, E. A.**
Report of Committee D-11 on Rubber Products, 354.
**Bassett, W. H.**
Report of Committee E-4 on Magnification Scales for Micrographs, 425.
**Bates, P. H.**
Report of Committee C-1 on Cement, 270.
**Bixby, Wm. H.**
Annual Address by the President—Engineering Societies: Their Utilities and Justification, 52.
Report of the Executive Committee, 59.
**Bleininger, A. V.**
Report of Committee C-8 on Refractories, 287.
**Buck, D. M.**
Discussion, 242.
**Burrows, Charles W.**
Report of Committee A-6 on Magnetic Properties, 243.

## C

**Campbell, William**
Report of Committee B-2 on Non-Ferrous Metals and Alloys, 246.
Discussion, 262, 264, 266.
**Capp, J. A.**
Report of Committee A-1 on Steel, 100; Addendum to Report of Committee A-1, 128.
Discussion, 136, 137, 138, 268.
**Carpenter, A. W.**
Report of Sub-Committee XIV, of Committee D-1, on the Preparation of Iron and Steel Surfaces for Painting, 310.
**Chapman, Cloyd M.**
Report of Sub-Committee XI, of Committee D-1, on Paint Thinners other than Turpentine, 309.
Discussion, 346.
**Church, S. R.**
Discussion, 344.
**Clamer, G. H.**
Discussion, 262, 264, 266, 268.
**Colby, A. L.**
Discussion, 139.

**Cole, F. J.**
Report of Sub-Committee XI of Committee A-1, 129.
**Conradson, P. H.**
Report of Sub-Committee, of Committee D-2, on Evaporation Tests, 323.
**Crockett, A. E.**
Report of Sub-Committee XVI of Committee A-1, 133.
**Cromwell, O. C.**
Discussion, 138, 140.
**Cushman, A. S.**
Discussion, 240.

**D**

**Davies, George C.**
Report of Committee A-3 on Cast Iron, 156.
**Devries, R. P.**
Discussion, 241.
**Douty, D. E.**
Report of Committee D-13 on Textile Materials, 357.
**Dunn, B. W.**
Report of Committee D-10 on Shipping Containers, 350.

**E**

**Edwards, E. J.**
Discussion, 267, 268.

**F**

**Fieldner, A. C.**
Report of Committee D-6 on Coke, 335.
**Finn, A. N.**
Report of Committee A-5, Appendix IV: Method of Making the Salt-Spray Corrosion Test, 237.
**Forrest, C. N.**
Discussion, 340.
**Fulweiler, W. H.**
Report of Committee C-8 on Refractories, 287.
Discussion, 341, 344.

**G**

**Gibboney, J. H.**
Discussion, 139, 240, 241, 242.
**Gibbs, A. W.**
Discussion, 267.
**Greenman, Russell S.**
Report of Committee C-1 on Cement, 270.

**H**

**Hammond, George T.**
Report of Committee C-4 on Clay and Cement Sewer Pipe, 274.

**Hance, J. A.**
Discussion, 267.
**Haven, G. B.**
Report of Committee D-13 on Textile Materials, 357, Appendix V: Effect of Moisture on the Tensile Strength of Aircraft Fabrics, 380.
**Herring, Rudolph**
Report of Committee C-4 on Clay and Cement Sewer Pipe, 274, Addendum to Report of Committee C-4, 280.
**Hubbard, Prévost**
Report of Committee D-4 on Road Materials, 326.

J

**Job, R.**
Discussion, 139.

L

**Lanza, G.**
Report of Committee E-1 on Methods of Testing, 399.
**Law, Leroy M.**
Report of Committee D-8 on Waterproofing, 347.

M

**Mackenzie, K. G.**
Report of Committee D-2 on Lubricants, 321.
**Marburg, Edgar**
Report of Committee E-5 on Standing Committees, 428.
Report of Committee E-6 on Papers and Publications, 440.
Report of the Executive Committee, 59.
**Merrill, A.**
Report of Committee B-2, Appendix: Determination of Manganese in Manganese Bronze, 256.
**Miller, R. P.**
Report of Committee C-5 on Fireproofing, 281.
**Moldenke, Richard**
Report of Committee A-3 on Cast Iron, 156.
Report of Committee D-6 on Coke, 335.
**Moore, H. F.**
Report of Committee E-1, Appendix II: Tension Tests of Steel with Test Specimens of Various Size and Form, 403.

N

**Nellis, J. C.**
Discussion, 351, 352.

P

**Page, L. W.**
Report of Committee D-4 on Road Materials, 326.

**Pickard, Glenn H.**
Report of Sub-Committee V, of Committee D-1, on Linseed Oil, 299, Appendix: Report of Analysts, 301.
**Pope, G. S.**
Report of Committee D-5 on Coal, 334.
**Provine, L. H.**
Report of Committee C-10 on Hollow Building Tile, 293.
**Provost, A. J., Jr.**
Report of Committee C-4 on Clay and Cement Sewer Pipe, 274.

**R**

**Rawdon, Henry S.**
Report of Sub-Committee II of Committee A-5. Appendix III: Structure of Commercial Zinc Coatings, 216.
**Rogers, Allen**
Report of Sub-Committee IX, of Committee D-1, on Varnish, 305.
**Rys, C. F. W.**
Discussion, 141.

**S**

**Shuman, J. J.**
Discussion, 140.
**Skinner, C. E.**
Report of Committee D-9 on Electrical Insulating Materials, 349.
**Smith, H. E.**
Report of Committee A-2 on Wrought Iron, 142.
Discussion, 136, 137, 138.
**Smither, F. W.**
Report of Sub-Committee VIII, of Committee D-1, on Methods of Analysis of Paint Materials, 304.
**Stevenson, A. A.**
Discussion, 346.
**Swett, C. E.**
Report of Committee D-13, Appendix IV: Identification of Manila Fiber, 377.

**T**

**Talbot, A. N.**
Discussion, 346.
**Taylor, C. M.**
Discussion, 345.
**Thompson, G. W.**
Report of Committee D-1 on Preservative Coatings for Structural Materials, 297.
**Topping, W. S.**
Report of Committee D-10 on Shipping Containers, 350.
**Turneaure, F. E.**
Report of Committee C-2 on Reinforced Concrete, 273.

## V

**Van Gundy, C. P.**
Report of Committee D-2 on Lubricants, 321.
**von Schrenk, Hermann**
Report of Committee D-7 on Timber, 336.
Discussion, 340, 343, 345.
**Voorhees, S. S.**
Report of Committee A-5 on Corrosion of Iron and Steel, 158.
Discussion, 242.

## W

**Walen, E. D.**
Report of Sub-Committee III, of Committee D-13, on Testing Machines, 370.
**Walker, P. H.**
Report of Committee D-1 on Preservative Coatings for Structural Materials, 297.
**Walter, L. W.**
Report of Committee D-8 on Waterproofing, 347.
**Waring, F. M.**
Report of Sub-Committee XVI of Committee A-1, 133.
Report of Committee D-11 on Rubber Products, 354.
**Warwick, C. L.**
Report of Committee A-1 on Steel, 100. Addendum to Report of Committee A-1, 128.
**Wille, H. V.**
Report of Committee E-3 on Revision of Pipe Threads, 422.
**Woolson, Ira H.**
Report of Committee C-5 on Fireproofing, 281.
Discussion, 352.

## Y

**Young, J. B.**
Report of Committee A-2 on Wrought Iron, 142.